

Polykemi AB SCANTEC PC S90R Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Information provided by Polykemi AB

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polykemi-AB-SCANTEC-PC-S90R-Polycarbonate.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	With Flow; ISO 2577
	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	Across Flow; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	<= 60.0 MPa	<= 8700 psi	ISO/R527
Elongation at Yield	6.0 %	6.0 %	ISO/R527
Flexural Strength	<= 100 MPa	<= 14500 psi	ISO 178
Flexural Modulus	2.20 GPa	319 ksi	ISO 178
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	ISO 179
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	2.00 J/cm ²	9.52 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	136 °C	277 °F	120°C/h; ISO 75/1
Deflection Temperature at 1.8 MPa (264 psi)	126 °C	259 °F	120°C/h; ISO 75/1
Vicat Softening Point	138 °C	280 °F	50°C/h; ISO 306
	@Load 5.001 kg	@Load 11.03 lb	
	143 °C	289 °F	50°C/h; ISO 306
	@Load 1.00 kg	@Load 2.21 lb	
Flammability, UL94	V-2	V-2	

Thermal Properties	@Thickness 1.60 mm Metric	@Thickness 0.0630 in English	Comments
Glow Wire Test	850 °C	1560 °F	IEC 695-2-1
	@Thickness 2.00 mm	@Thickness 0.0787 in	

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